

AMENDMENTS TO THE SPECIFICATION

Please amend the specification as indicated in the following rewritten paragraphs.

Please delete paragraph [0508] and replace it with the following rewritten paragraph:

[0508] A preferred detection method is allele specific hybridization using probes overlapping the polymorphic site and having about 5, 10, 20, 25, or 30 nucleotides around the polymorphic region. Examples of probes for detecting specific allelic variants of the polymorphic region located in intron X are probes comprising a nucleotide sequence set forth in any of SEQ ID NO. X. In a preferred embodiment of the invention, several probes capable of hybridizing specifically to allelic variants are attached to a solid phase support, e.g., a "chip." Oligonucleotides can be bound to a solid support by a variety of processes, including lithography. For example a chip can hold up to 250,000 oligonucleotides (GeneChip, Affymetrix). Mutation detection analysis using these chips comprising oligonucleotides, also termed "DNA probe arrays" is described e.g., in Cronin et al., HUMAN MUTATION 7:244 (1996) and in Kozal et al., NATURE MEDICINE 2:753 (1996). In one embodiment, a chip comprises all the allelic variants of at least one polymorphic region of a gene. The solid phase support is then contacted with a test nucleic acid and hybridization to the specific probes is detected. Accordingly, the identity of numerous allelic variants of one or more genes can be identified in a simple hybridization experiment. For example, the identity of the allelic variant of the nucleotide polymorphism of nucleotide A or G at position 33 of Seq ID-1 (baySNP179) and that of other possible polymorphic regions can be determined in a single hybridization experiment.

Please delete paragraph [0633] and replace it with the following rewritten paragraph:

Table 2a

OLIGONUCLEOTIDE PRIMERS USED FOR GENOTYPING USING MASS SPECTROMETRY

[0633] The baySNP number refers to an internal numbering of the PA SNPs. Primer sequences are listed for preamplification of the genomic fragments (primers EF and ER) and for subsequent allele specific PCR of the SNP.

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
28	C137T	CF	gggacggtcggtagatTCTAGAATTGTGCTTCCC	<u>1</u>
28	C137T	EF	TGTCCAGTGTAGGAAAAA	<u>2</u>
28	C137T	ER	GACGATGCCTTCAGCACAGATGTGGCTCTGTATGAG	<u>3</u>
28	C137T	TF	gctggctcggtcaagaTCTAGAATTGTGCTTCCT	<u>4</u>
29	A464G	AF	gggacggtcggtagatCATCGGTCACTGTCCCCA	<u>5</u>
29	A464G	EF	GATGTCTGTCTCCTTGATGT	<u>6</u>
29	A464G	ER	GACGATGCCTTCAGCACAAATGTGGGGTTTATT	<u>7</u>
29	A464G	GF	gctggctcggtcaagaCATCGGTCACTGTCCCCG	<u>8</u>
52	C397G	CR	gggacggtcggtagatTATTATAATGCAAAAG	<u>9</u>
52	C397G	EF	GACGATGCCTTCAGCACAGTGAATTGCCAGATTAGT	<u>10</u>
52	C397G	ER	TCTAAAGTGTGGATTG	<u>11</u>
52	C397G	GR	gctggctcggtcaagaTATTATAATGCAAAAC	<u>12</u>
56	A429G	AF	gggacggtcggtagatAAGGTCTTGTACGTGTA	<u>13</u>
56	A429G	EF	CCAGGTACTGCCTTACAAA	<u>14</u>
56	A429G	ER	GACGATGCCTTCAGCACAGCTCCAAAATAACTC	<u>15</u>
56	A429G	GF	gctggctcggtcaagaAAGGTCTTGTACGTG	<u>16</u>
89	A159G	AR	gggacggtcggtagatTGGAGTCGGGGAGTCAT	<u>17</u>
89	A159G	EF	GACGATGCCTTCAGCACATAGTTCAAGGGTAAAGGA	<u>18</u>
89	A159G	ER	GAGGACGAGATGTAAGAG	<u>19</u>
89	A159G	GR	gctggctcggtcaagaTGGAGTCGGGGAGTCAC	<u>20</u>
90	C154T	CF	gggacggtcggtagatCAGCGCATCCTGAACCAC	<u>21</u>
90	C154T	EF	GCTGGAACGAGTTCATCCT	<u>22</u>
90	C154T	ER	GACGATGCCTTCAGCACAGGACCCCACCTTCTGT	<u>23</u>
90	C154T	TF	gctggctcggtcaagaCAGCGCATCCTGAACCAC	<u>24</u>
99	C58T	CR	gggacggtcggtagatTCCTGCTTTCTCTAG	<u>25</u>
99	C58T	EF	GACGATGCCTTCAGCACACACTGACTGCTTACTCTACC	<u>26</u>
99	C58T	ER	TACTGTGTCTCAGCTCCA	<u>27</u>

<u>baySNP</u>	<u>SNP</u>	<u>NAME</u>	<u>SEQUENCE</u>	<u>SEQ ID NO:</u>
99	C58T	TR	gctggctcggtcaagaTCCTGCTTTCTCTAA	<u>28</u>
140	C468T	CR	gggacggtcggtagatGTGAATCCCAATACGAAG	<u>29</u>
140	C468T	EF	GACGATGCCTTCAGCACATAAAAAATAACCAGGTACTCCA	<u>30</u>
140	C468T	ER	GATGAGTCCTTCACCAAACATACA	<u>31</u>
140	C468T	TR	gctggctcggtcaagaGTGAATCCCAATACGAAA	<u>32</u>
152	A587G	AF	gggacggtcggtagatGGTGGGAGGTTCCAGCCA	<u>33</u>
152	A587G	EF	GCAGGAAGAAAGCTAGAA	<u>34</u>
152	A587G	ER	GACGATGCCTTCAGCACAAAGGCAGGATAATGACAAC	<u>35</u>
152	A587G	GF	gctggctcggtcaagaGGTGGGAGGTTCCAGCCG	<u>36</u>
214	A209G	AF	gggacggtcggtagatCATTCCACCTCACCAAA	<u>37</u>
214	A209G	EF	AGGTATTCCCGGCGTTTC	<u>38</u>
214	A209G	ER	GACGATGCCTTCAGCACATGTTGTGCGTCTGCTTCC	<u>39</u>
214	A209G	GF	gctggctcggtcaagaCATTCCACCTCACCAAG	<u>40</u>
221	C339G	CF	gggacggtcggtagatTGTGAAGAACTGTTGCTC	<u>41</u>
221	C339G	EF	CTGAAGCTCATCTGCCTTCT	<u>42</u>
221	C339G	ER	GACGATGCCTTCAGCACATCCCCTTCCTTACCT	<u>43</u>
221	C339G	GF	gctggctcggtcaagaTGTGAAGAACTGTTGCTG	<u>44</u>
224	C189T	CR	gggacggtcggtagatGCCCGTTTCTTCATCG	<u>45</u>
224	C189T	EF	GACGATGCCTTCAGCACACTGTCTCAAGGGCTTACAC	<u>46</u>
224	C189T	ER	TCCAACCTCAGGAAAAC	<u>47</u>
224	C189T	TR	gctggctcggtcaagaGCCCGTTTCTTCATCA	<u>48</u>
294	C465T	CR	gggacggtcggtagatCCCAAGGCCAACAGGGAG	<u>49</u>
294	C465T	EF	GACGATGCCTTCAGCACAGCATTCTATGCCAGTGTTC	<u>50</u>
294	C465T	ER	ATCCATCCCATCCTGTGT	<u>51</u>
294	C465T	TR	gctggctcggtcaagaCCCAAGGCCAACAGGGAA	<u>52</u>
307	C215T	CR	gggacggtcggtagatGAGTGGGTGCTGTTCCCG	<u>53</u>
307	C215T	EF	GACGATGCCTTCAGCACAGTTACTGCCTCTGACC	<u>54</u>
307	C215T	ER	AGTGTGACCTGCTCTCTT	<u>55</u>
307	C215T	TR	gctggctcggtcaagaGAGTGGGTGCTGTTCCCA	<u>56</u>
411	A369T	ER	gacgtgcctcagcacaAACACATTCCCCCTCTAC	<u>57</u>
411	A369T	EF	GTCTCTATTCCAAGCCAAG	<u>58</u>
411	A369T	AF	gggacggtcggtagatCCCCGCTCCAGCTCCTCA	<u>59</u>
411	A369T	TF	gctggctcggtcaagaCCCCGCTCCAGCTCCTCT	<u>60</u>
449	C323G	CR	gggacggtcggtagatCCGCTCTGCTTCTGCTG	<u>61</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID No:
449	C323G	EF	GACGATGCCTTCAGCACAAGGAGAAGAGGGAGGAGA	<u>62</u>
449	C323G	ER	GGAGCACGTAAGGAGAAA	<u>63</u>
449	C323G	GR	gctggctcggtcaagaCCGCTTCTGCTTCTGCTC	<u>64</u>
466	C123T	CF	gggacggtcggtagatGCCAGGGCTGGAGGGC	<u>65</u>
466	C123T	EF	TCTTCAGTTCTCTCAGCTTC	<u>66</u>
466	C123T	ER	GACGATGCCTTCAGCACATCACTAGGGCTTTACC	<u>67</u>
466	C123T	TF	gctggctcggtcaagaGCCAGGGCTGGAGGGT	<u>68</u>
472	A497G	AR	gggacggtcggtagatTCCTCCCGCTGCTTCAGT	<u>69</u>
472	A497G	EF	GACGATGCCTTCAGCACATCACTTACCCATCATACTTCTTTTC	<u>70</u>
472	A497G	ER	AATCCTGCCTCCCACCTT	<u>71</u>
472	A497G	GR	gctggctcggtcaagaTCCTCCCGCTGCTTCAGC	<u>72</u>
542	A402G	AR	gggacggtcggtagatAGAAATTCCCTCCCAACT	<u>73</u>
542	A402G	EF	GACGATGCCTTCAGCACATGATTGAGCCAGTTGTTT	<u>74</u>
542	A402G	ER	GGGGTGTATTGAGAGTG	<u>75</u>
542	A402G	GR	gctggctcggtcaagaAGAAATTCCCTCCCAACC	<u>76</u>
739	C87G	CR	gggacggtcggtagatGCTGGTTGACTGGACGG	<u>77</u>
739	C87G	EF	GACGATGCCTTCAGCACACCTGGTATAATCCTTCC	<u>78</u>
739	C87G	ER	AGGCAACCTAACCTCACTT	<u>79</u>
739	C87G	GR	gctggctcggtcaagaGCTGGTTGACTGGACCC	<u>80</u>
821	A140C	AF	gggacggtcggtagatAGTGCTGTGATAACCTGGAA	<u>81</u>
821	A140C	CF	gctggctcggtcaagaAGTGCTGTGATAACCTGGC	<u>82</u>
821	A140C	EF	ACACCCACAAAACAAGAA	<u>83</u>
821	A140C	ER	GACGATGCCTTCAGCACAGGAACAAGGACATAAAAGAG	<u>84</u>
1005	A257G	AR	gggacggtcggtagatAGGAAATGTTAGCCCTGT	<u>85</u>
1005	A257G	EF	GACGATGCCTTCAGCACACTCCACTTCTATGCCTC	<u>86</u>
1005	A257G	ER	GTCCCCAGCTATGTATTGT	<u>87</u>
1005	A257G	GR	gctggctcggtcaagaAGGAAATGTTAGCCCTGC	<u>88</u>
1055	A287T	AF	gggacggtcggtagatCTCAGGGAGGGAGAGAGA	<u>89</u>
1055	A287T	EF	GGGACAGACAGACAGACA	<u>90</u>
1055	A287T	ER	GACGATGCCTTCAGCACACAACTCCTTCTCAGCAC	<u>91</u>
1055	A287T	TF	gctggctcggtcaagaCTCAGGGAGGGAGAGAGT	<u>92</u>
1056	A354G	AR	gggacggtcggtagatGCGGCTGCCCGTCTGT	<u>93</u>
1056	A354G	EF	GACGATGCCTTCAGCACAGTGTGTATGTGTCTGTGTG	<u>94</u>
1056	A354G	ER	CGGACTTCTCCTTCTGT	<u>95</u>

baySNP	SNP	NAME	SEQUENCE	<u>SEQ ID NO:</u>
1056	A354G	GR	gctggctcggtcaagaGCGGCTGCCCGTCCTGC	<u>96</u>
1085	A251G	EF	TAGGGTAAGCAGCAAGAG	<u>97</u>
1085	A251G	ER	CACAAGGCAAGAGATAACA	<u>98</u>
1085	A251G	AF	gggacggtcggtagatCAGGCAAGATAGACAGCA	<u>99</u>
1085	A251G	GF	gctggctcggtcaagaCAGGCAAGATAGACAGCG	<u>100</u>
1086	A104G	EF	GTGCCCATACGAACAGAATAG	<u>101</u>
1086	A104G	ER	TGCCAAGTACCCCAAGAG	<u>102</u>
1086	A104G	AR	gggacggtcggtagatCCATTCCCTCCCCAGACAT	<u>103</u>
1086	A104G	GR	gctggctcggtcaagaCCATTCCCTCCCCAGACAC	<u>104</u>
1092	C1687G	CF	gggacggtcggtagatCGTGCGAGCAGCGAAAGC	<u>105</u>
1092	C1687G	EF	CCAGAGAGAACGTCGAGGAAGAGA	<u>106</u>
1092	C1687G	ER	GACGATGCCTTCAGCACAGTCACCCCCAAAAGCAGG	<u>107</u>
1092	C1687G	GF	gctggctcggtcaagaCGTGCGAGCAGCGAAAGG	<u>108</u>
1096	G454T	EF	GACGATGCCTTCAGCACACTTTCCCTAGCCCAC	<u>109</u>
1096	G454T	ER	AAGTGATGTAACCCTCCTCTC	<u>110</u>
1096	G454T	GR	gggacggtcggtagatTCAGCTATAAATAGGGCC	<u>111</u>
1096	G454T	TR	gctggctcggtcaagaTCAGCTATAAATAGGGCA	<u>112</u>
1101	C249T	CR	gggacggtcggtagatTGATGGCGGGTGCCAAGG	<u>113</u>
1101	C249T	EF	GACGATGCCTTCAGCACAGCTTTCCCTTGCTTCC	<u>114</u>
1101	C249T	ER	CACTGGGGTCCTCTTAC	<u>115</u>
1101	C249T	TR	gctggctcggtcaagaTGATGGCGGGTGCCAAGA	<u>116</u>
1204	A307G	AR	gggacggtcggtagatCAAGGGCACTCACATTAT	<u>117</u>
1204	A307G	EF	GACGATGCCTTCAGCACAGCTTGCCTGTGTTCC	<u>118</u>
1204	A307G	ER	TTTCCCTTCTGTCCCCTT	<u>119</u>
1204	A307G	GR	gctggctcggtcaagaCAAGGGCACTCACATTAC	<u>120</u>
1504	C180T	CF	gggacggtcggtagatGTGACTTTGGTTCCAC	<u>121</u>
1504	C180T	EF	AACTCGGGTCACTGGTCT	<u>122</u>
1504	C180T	ER	GACGATGCCTTCAGCACACAGCGGGTATGGAGGATG	<u>123</u>
1504	C180T	TF	gctggctcggtcaagaGTGACTTTGGTTCCCAT	<u>124</u>
1511	G153T	EF	ACACCAGTTCTCCCTCCT	<u>125</u>
1511	G153T	ER	GACGATGCCTTCAGCACACCCACCTTCCTAATCCT	<u>126</u>
1511	G153T	GF	gggacggtcggtagatTTGGGACTCTGCGTCAAG	<u>127</u>
1511	G153T	TF	gctggctcggtcaagaTTGGGACTCTGCGTCAAT	<u>128</u>
1524	A284C	AF	gggacggtcggtagatCTCTCAAAGCCCACACAA	<u>129</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID NO:
1524	A284C	CF	gctggctcggtcaagaCTCTCAAAGCCCACACAC	<u>130</u>
1524	A284C	EF	AGAAAAAGAAAAGGAAAAAGA	<u>131</u>
1524	A284C	ER	GACGATGCCTTCAGCACAGGAAAGTTACAAGGCTATGA	<u>132</u>
1556	C367G	CR	gggacggtcggtagatACCTGCCTCTAAGGTCTG	<u>133</u>
1556	C367G	EF	GACGATGCCTTCAGCACAGGAGAACAGTTCAAGG	<u>134</u>
1556	C367G	ER	ACAGTTGCCAGAGAAAAG	<u>135</u>
1556	C367G	GR	gctggctcggtcaagaACCTGCCTCTAAGGTCTC	<u>136</u>
1561	A251C	EF	TCACTTGCCTCTACTCCA	<u>137</u>
1561	A251C	ER	ATACCAGAAAGACTAAGCTCC	<u>138</u>
1561	A251C	AF	gggacggtcggtagatGGGTGAGCTCTGTGGCA	<u>139</u>
1561	A251C	CF	gctggctcggtcaagaGGGTGAGCTCTGTGGGCC	<u>140</u>
1582	C389T	CR	gggacggtcggtagatCCAAGGGTTATGGCAGGG	<u>141</u>
1582	C389T	EF	GACGATGCCTTCAGCACACCTGACTATTGGGTTGTG	<u>142</u>
1582	C389T	ER	ATCGCTCTCTGCTCTGCT	<u>143</u>
1582	C389T	TR	gctggctcggtcaagaCCAAGGGTTATGGCAGGA	<u>144</u>
1638	A443G	AR	gggacggtcggtagatCCAAAACCCCAGCGCTGT	<u>145</u>
1638	A443G	EF	GACGATGCCTTCAGCACACTCTTATCCTGCTTATGGT	<u>146</u>
1638	A443G	ER	CCAAGCTCACTCTGTAGG	<u>147</u>
1638	A443G	GR	gctggctcggtcaagaCCAAAACCCCAGCGCTGC	<u>148</u>
1662	C251T	EF	AATAACAATGGAAGCCAAG	<u>149</u>
1662	C251T	ER	CCTAATCGAACAGAAAGG	<u>150</u>
1662	C251T	CF	gggacggtcggtagatCCAGTCTCCATCCACTTC	<u>151</u>
1662	C251T	TF	gctggctcggtcaagaCCAGTCTCCATCCACTTT	<u>152</u>
1714	A376G	AF	gggacggtcggtagatTGAACGGCATGACGGGA	<u>153</u>
1714	A376G	EF	AAAGTGTCTGCTGTGCCT	<u>154</u>
1714	A376G	ER	GACGATGCCTTCAGCACACAAGTCCTGGTTCCATC	<u>155</u>
1714	A376G	GF	gctggctcggtcaagaTGAACGGCATGACGGGG	<u>156</u>
1722	C89T	CF	gggacggtcggtagatACCCAGGATGCCACAC	<u>157</u>
1722	C89T	EF	GTTCATCCTCCTCATGTCC	<u>158</u>
1722	C89T	ER	GACGATGCCTTCAGCACAGTTACCTTTCCACCTCTC	<u>159</u>
1722	C89T	TF	gctggctcggtcaagaACCCAGGATGCCACAT	<u>160</u>
1757	A210G	AF	gggacggtcggtagatGGAAACAAACCAAAATGA	<u>161</u>
1757	A210G	EF	CCAGCACCCAAAATAAGA	<u>162</u>
1757	A210G	ER	GACGATGCCTTCAGCACATAAGTTGAAGCCCTCCC	<u>163</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID NO:
1757	A210G	GF	gctggctcggtcaagaGGAAACAAACCAAAATGG	<u>164</u>
1765	A240G	AF	gggacggtcggtagatGGCTTCACGGAGGAAGAA	<u>165</u>
1765	A240G	EF	TTAGGAGCTGTGAGGTATG	<u>166</u>
1765	A240G	ER	GACGATGCCTTCAGCACATAAGATGGAGCAGGGTAG	<u>167</u>
1765	A240G	GF	gctggctcggtcaagaGGCTTCACGGAGGAAGAG	<u>168</u>
1776	A200G	AF	gggacggtcggtagatAAAGGGCTCCAACACCCA	<u>169</u>
1776	A200G	EF	TGAGCACAAGATCAGAGAGG	<u>170</u>
1776	A200G	ER	GACGATGCCTTCAGCACAAAGACAGAGACGCAGGAATG	<u>171</u>
1776	A200G	GF	gctggctcggtcaagaAAAGGGCTCCAACACCG	<u>172</u>
1799	C370T	CF	gggacggtcggtagatAGGGACAACCAAAGTGAC	<u>173</u>
1799	C370T	EF	ATCATCAGAACAGCCCTAC	<u>174</u>
1799	C370T	ER	GACGATGCCTTCAGCACACAAGCCCACCTACTTACTC	<u>175</u>
1799	C370T	TF	gctggctcggtcaagaAGGGACAACCAAAGTGAT	<u>176</u>
1806	A201G	AF	gggacggtcggtagatTGGGCGTCCTGGTGGGCA	<u>177</u>
1806	A201G	EF	TCTTCGGGCTAACTCTT	<u>178</u>
1806	A201G	ER	GACGATGCCTTCAGCACACTGTCACTCCAAACCTTCT	<u>179</u>
1806	A201G	GF	gctggctcggtcaagaTGGGCGTCCTGGTGGCG	<u>180</u>
1837	C413T	CF	gggacggtcggtagatCTCAGCTTCATGCAGGGC	<u>181</u>
1837	C413T	EF	CCCACTCAGCCCTGCTCTT	<u>182</u>
1837	C413T	ER	GACGATGCCTTCAGCACAGCATCCTGGCGGTCTTG	<u>183</u>
1837	C413T	TF	gctggctcggtcaagaCTCAGCTTCATGCAGGGT	<u>184</u>
1870	C323T	CF	gggacggtcggtagatCTCCTCATTGCCTCCTTC	<u>185</u>
1870	C323T	EF	CACCTCTTCTCCTCTCTT	<u>186</u>
1870	C323T	ER	GACGATGCCTTCAGCACACCCACCCCTCTATCTAC	<u>187</u>
1870	C323T	TF	gctggctcggtcaagaCTCCTCATTGCCTCCTTT	<u>188</u>
1882	C115T	CR	gggacggtcggtagatGTCCCCCACAGTCCTCG	<u>189</u>
1882	C115T	EF	GACGATGCCTTCAGCACAGACCTGTACCCCTTACCC	<u>190</u>
1882	C115T	ER	TGTTCCCTGTCTGTTTC	<u>191</u>
1882	C115T	TR	gctggctcggtcaagaGTCCCCCACAGTCCTCA	<u>192</u>
1882	C115T	CF	gggacggtcggtagatGTGACTCGGTCCATAACC	<u>193</u>
1882	C115T	EF	GTGGGCTGTGATTGTGTT	<u>194</u>
1882	C115T	ER	GACGATGCCTTCAGCACATCTCGTCGTAGTAGTTGT	<u>195</u>
1988	C214T	TF	gctggctcggtcaagaGTGACTCGGTCCATAACT	<u>196</u>
2000	C349T	CR	gggacggtcggtagatAGTATGGTAATTAGGAAG	<u>197</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID NO:
2000	C349T	EF	GACGATGCCTTCAGCACACTGACACTGAGCCACAAC	<u>198</u>
2000	C349T	ER	AACTGATGAGCAAGAAGGA	<u>199</u>
2000	C349T	TR	gctggctcggtcaagaAGTATGGTAATTAGGAAA	<u>200</u>
2071	A338G	AR	gggacggtcggtagatAAAATTGTTCCCTGTGAT	<u>201</u>
2071	A338G	EF	GACGATGCCTTCAGCACACATTGCTATTCTCAGGCTATA	<u>202</u>
2071	A338G	ER	CCCATTCTCTGCTTGACAGT	<u>203</u>
2071	A338G	GR	gctggctcggtcaagaAAAATTGTTCCCTGTGAC	<u>204</u>
2078	G876T	EF	CCAGAGAGGGGATAAAGA	<u>205</u>
2078	G876T	ER	GACGATGCCTTCAGCACAGAGTGTCAAGAGGAACAGG	<u>206</u>
2078	G876T	GF	gggacggtcggtagatTGGCTGCTGAGGTCTGAG	<u>207</u>
2078	G876T	TF	gctggctcggtcaagaTGGCTGCTGAGGTCTGAT	<u>208</u>
2085	G415T	EF	GCTTTTCTTTCATACATC	<u>209</u>
2085	G415T	ER	GACGATGCCTTCAGCACACCTCTTTAGAACATCAGAGACA	<u>210</u>
2085	G415T	GF	gggacggtcggtagatGGTAGTGTACCAGAAAG	<u>211</u>
2085	G415T	TF	gctggctcggtcaagaGGTAGTGTACCAGAAAT	<u>212</u>
2095	A406G	AR	gggacggtcggtagatTGTGCACCGGGATATTTT	<u>213</u>
2095	A406G	EF	GACGATGCCTTCAGCACAAATGTGTGCTGGGTTCTT	<u>214</u>
2095	A406G	ER	GGTGTTCCTCCTCTCT	<u>215</u>
2095	A406G	GR	gctggctcggtcaagaTGTGCACCGGGATATTTC	<u>216</u>
2119	A67G	AR	gggacggtcggtagatGTGGGCACCAAACGCTAT	<u>217</u>
2119	A67G	EF	GACGATGCCTTCAGCACAGATGTAGGGCTGGAAGTG	<u>218</u>
2119	A67G	ER	TCAAGAAAAATGGGAGTTG	<u>219</u>
2119	A67G	GR	gctggctcggtcaagaGTGGGCACCAAACGCTAC	<u>220</u>
2141	A176G	EF	TGTAGCATCGGTAGGTT	<u>221</u>
2141	A176G	ER	CAACATCAGACTTCTTTTC	<u>222</u>
2141	A176G	AR	gggacggtcggtagatTGGTACAGGGCTAGTTTT	<u>223</u>
2141	A176G	GR	gctggctcggtcaagaTGGTACAGGGCTAGTTTC	<u>224</u>
2182	A318G	AF	gggacggtcggtagatAGGCAGGCCAAGGGTGAA	<u>225</u>
2182	A318G	EF	TTCTCTCTCCCCCTCTGT	<u>226</u>
2182	A318G	ER	GACGATGCCTTCAGCACATAAATGTTCACTCTTCTGCT	<u>227</u>
2182	A318G	GF	gctggctcggtcaagaAGGCAGGCCAAGGGTGAG	<u>228</u>
2234	G296T	EF	GGGTTGTTCCAGGGCGCTATT	<u>229</u>
2234	G296T	ER	GACGATGCCTTCAGCACATGTGGAGAGGCCGGGTGC	<u>230</u>
2234	G296T	GF	gggacggtcggtagatGAACCAGCCCCCTGGAAG	<u>231</u>

baySNP	SNP	NAME	SEQUENCE	<u>SEQ ID NO:</u>
2234	G296T	TF	gctggctcggtcaagaGAACCAGCCCCCTGGAAT	<u>232</u>
2281	A227C	AR	gggacggtcggtagatCAGGCTTGGAGACCTGGT	<u>233</u>
2281	A227C	CR	gctggctcggtcaagaCAGGCTTGGAGACCTGGG	<u>234</u>
2281	A227C	EF	GACGATGCCTTCAGCACAGGGTATTCAAGTTGGAAGG	<u>235</u>
2281	A227C	ER	AAGGCAAGGTTCTTAGTTG	<u>236</u>
2298	A77C	AR	gggacggtcggtagatTCTAAAAGCACTTGAAAT	<u>237</u>
2298	A77C	CR	gctggctcggtcaagaTCTAAAAGCACTTGAAAG	<u>238</u>
2298	A77C	EF	GACGATGCCTTCAGCACACCTGCTAGTGTTTCTGG	<u>239</u>
2298	A77C	ER	TGTAACTGATAGGTGGTGG	<u>240</u>
2341	C286T	CR	gggacggtccgttagatTGAAGATTCTGCTCAGCG	<u>241</u>
2341	C286T	EF	GACGATGCCTTCAGCACACAAGGGCCGGACTCAT	<u>242</u>
2341	C286T	ER	TTTGGGGTCCTGCGGATG	<u>243</u>
2341	C286T	TR	gctggctcggtcaagaTGAAGATTCTGCTCAGCA	<u>244</u>
2357	A165G	AF	gggacggtcggtagatCAAAGAAGACGAAAATGA	<u>245</u>
2357	A165G	EF	CTCAAGTTGTTACTGATTCTC	<u>246</u>
2357	A165G	ER	GACGATGCCTTCAGCACAGGGTACGTCTGCTCTTC	<u>247</u>
2357	A165G	GF	gctggctcggtcaagaCAAAGAAGACGAAAATGG	<u>248</u>
2366	G50T	EF	GACGATGCCTTCAGCACACTGCTCCGAAACACGGTC	<u>249</u>
2366	G50T	ER	GCATCTTCAGCCCTTCTTACTCT	<u>250</u>
2366	G50T	GR	gggacggtcggtagatCTCCTGGGCACCACGGGC	<u>251</u>
2366	G50T	TR	gctggctcggtcaagaCTCCTGGGCACCACGGGA	<u>252</u>
2995	A299C	ER	gacgatgccttcagcacaTGGGATTAGACACGAGAG	<u>253</u>
2995	A299C	EF	AAAGAACTGGAAGAAGGAA	<u>254</u>
2995	A299C	AF	gggacggtcggtagatGTCACCTCCTTCCACTA	<u>255</u>
2995	A299C	CF	gctggctcggtcaagaGTCACCTCCTTCCACTC	<u>256</u>
3360	G777T	ER	gacgatgccttcagcacaAGAAAAATGAGAGGGAAAAC	<u>257</u>
3360	G777T	EF	GATGAAGGGAAATGGAAC	<u>258</u>
3360	G777T	GF	gggacggtcggtagatCCAACATATAGGAGCCG	<u>259</u>
3360	G777T	TF	gctggctcggtcaagaCCAACATATAGGAGCCT	<u>260</u>
3464	A110G	EF	CTGAACCGAGGGAGATTTT	<u>261</u>
3464	A110G	ER	TGATGCTTACAGAACTGGG	<u>262</u>
3464	A110G	AF	gggacggtcggtagatGTGTAGTGGGCAGGGTTA	<u>263</u>
3464	A110G	GF	gctggctcggtcaagaGTGTAGTGGGCAGGGTTG	<u>264</u>
3975	A65C	EF	gacgatgccttcagcacaAAAAGAACCTGGTGAAG	<u>265</u>

baySNP	SNP	NAME	SEQUENCE	<u>SEQ ID NO:</u>
3975	A65C	ER	CCCTGATAAAAGAGATGGA	<u>266</u>
3975	A65C	AR	gggacggtcggtagatCGCATGGAGTCAGGGAT	<u>267</u>
3975	A65C	CR	gctggctcggtcaagaCGCATGGAGTCAGGGAG	<u>268</u>
3976	A239G	EF	gacgatgcctcagcacaATGAGGGAGCAAGACAAG	<u>269</u>
3976	A239G	ER	TGATAAAAGAGATGGAAGGAG	<u>270</u>
3976	A239G	AR	gggacggtcggtagatGTCACTGTTGTCACTGT	<u>271</u>
3976	A239G	GR	gctggctcggtcaagaGTCACTGTTGTCACTGC	<u>272</u>
4206	A304T	EF	gacgatgcctcagcacaCTTTTAGCCAAGTGGAG	<u>273</u>
4206	A304T	ER	GGATCTGAGGAATCTGTG	<u>274</u>
4206	A304T	AR	gggacggtcggtagatACCAGGCAGAGAGAAAAAT	<u>275</u>
4206	A304T	TR	gctggctcggtcaagaACCAGGCAGAGAGAAAAAA	<u>276</u>
4912	A74G	EF	CTTCACTGAGCGTCCGCAGAG	<u>277</u>
4912	A74G	ER	CCGTCGGCCCGATTCA	<u>278</u>
4912	A74G	AR	CAGGCGAGCCTCAGCCCT	<u>279</u>
4912	A74G	GR	CAGGCGAGCCTCAGCCCC	<u>280</u>
4925	A251C	EF	TCATTTCCCATTACCTCC	<u>281</u>
4925	A251C	ER	CCTCTTCCCATTCTCCCT	<u>282</u>
4925	A251C	AF	gggacggtcggtagatAGCCAGGAGCCTGCGTCA	<u>283</u>
4925	A251C	CF	gctggctcggtcaagaAGCCAGGAGCCTGCGTCC	<u>284</u>
4966	A251G	EF	CATTGCTCTCCCTCTGT	<u>285</u>
4966	A251G	ER	GTGTCATCATTCTTCTTG	<u>286</u>
4966	A251G	AR	gggacggtcggtagatTCAGAGACATGAGTCCAT	<u>287</u>
4966	A251G	GR	gctggctcggtcaagaTCAGAGACATGAGTCCAC	<u>288</u>
5014	A2057G	ER	gacgatgcctcagcacaCACCTGTCACCCCTATT	<u>289</u>
5014	A2057G	EF	GTCCTGAACCCCCATTCT	<u>290</u>
5014	A2057G	AF	gggacggtcggtagatGCCTGCACTGCGTTCTA	<u>291</u>
5014	A2057G	GF	gctggctcggtcaagaGCCTGCACTGCGTTCTG	<u>292</u>
5296	A251G	EF	GCTCCTCTGCCTTCTGCTT	<u>293</u>
5296	A251G	ER	ATTGCCCACTGCCCTTC	<u>294</u>
5296	A251G	AF	gggacggtcggtagatTGGCTGCAGGTGCGTCCA	<u>295</u>
5296	A251G	GF	gctggctcggtcaagaTGGCTGCAGGTGCGTCCG	<u>296</u>
5298	C172T	EF	GCCACACACACCTTAACA	<u>297</u>
5298	C172T	ER	AAAGTTCTCTGCCTCAA	<u>298</u>
5298	C172T	CF	gggacggtcggtagatAGCTCTCAGCTGGGTGC	<u>299</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID NO:
5298	C172T	TF	gctggctcggtcaagaAGCTCTCAGCTGGGTGT	<u>300</u>
5457	A134G	EF	AGCAGAATGGGCAATAGA	<u>301</u>
5457	A134G	ER	AGAGATGTGGGCAGAGAA	<u>302</u>
5457	A134G	AF	gggacggtcggtagatGGAAAGCCTACTTCTTA	<u>303</u>
5457	A134G	GF	gctggctcggtcaagaGGAAAGCCTACTTCTTG	<u>304</u>
5704	C61T	EF	ACAGCCATAACAGGAGTG	<u>305</u>
5704	C61T	ER	GGGTTACTCAACCTAACAGA	<u>306</u>
5704	C61T	CR	gggacggtcggtagatGTTCTCTTGGGAAAACG	<u>307</u>
5704	C61T	TR	gctggctcggtcaagaGTTCTCTTGGGAAAACA	<u>308</u>
5717	A1960G	EF	gacgatgcctcagcacaAACAGAAACCACAGAAC	<u>309</u>
5717	A1960G	ER	GTCCCACCCATTGGAG	<u>310</u>
5717	A1960G	AR	gggacggtcggtagatCACTGGCCCACCTCCCTT	<u>311</u>
5717	A1960G	GR	gctggctcggtcaagaCACTGGCCCACCTCCCTC	<u>312</u>
5959	A71G	EF	gacgatgcctcagcacaACCATGCCTGACTAAC	<u>313</u>
5959	A71G	ER	TTGTTTCCTGTCCTCTTC	<u>314</u>
5959	A71G	AR	gggacggtcggtagatGTTAAGAGGCTGGCAGT	<u>315</u>
5959	A71G	GR	gctggctcggtcaagaGTTAAGAGGCTGGCAGC	<u>316</u>
6162	C340G	EF	gacgatgcctcagcacaAGTGTGTTAGGAGCAAAG	<u>317</u>
6162	C340G	ER	CTTAGGAAACTGAGGTGG	<u>318</u>
6162	C340G	CR	gggacggtcggtagatCTGCAGCCTGGCAACAG	<u>319</u>
6162	C340G	GR	gctggctcggtcaagaCTGCAGCCTGGCAACAC	<u>320</u>
6236	C906T	ER	gacgatgcctcagcacaTGGACACATTGAGCTT	<u>321</u>
6236	C906T	EF	CTTCCCCAGAGAGATGACTAC	<u>322</u>
6236	C906T	CF	gggacggtcggtagatCCCCATCCTACTCAGCAC	<u>323</u>
6236	C906T	TF	gctggctcggtcaagaCCCCATCCTACTCAGCAT	<u>324</u>
6744	C348T	ER	gacgatgcctcagcacaGGTACAGTGAGCCAAGA	<u>325</u>
6744	C348T	EF	AGGTGAAGAAAGCAAAATAC	<u>326</u>
6744	C348T	CF	gggacggtcggtagatTGGTGTGTGTTTGTTC	<u>327</u>
6744	C348T	TF	gctggctcggtcaagaTGGTGTGTGTTTGTTC	<u>328</u>
7133	C63G	EF	TTGAGACCCCTACAGAGCCA	<u>329</u>
7133	C63G	ER	GGCAAGCTGAGGTGAAAG	<u>330</u>
7133	C63G	CR	gggacggtcggtagatATAAGGTAAGAAATGAG	<u>331</u>
7133	C63G	GR	gctggctcggtcaagaATAAGGTAAGAAATGAC	<u>332</u>
8210	A251G	EF	TAATTCTAATGGCCTTCC	<u>333</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID NO:
8210	A251G	ER	TCACTTACTCCCTGATGTCT	<u>334</u>
8210	A251G	AR	gggacggtcggtagatCATTGGGTTTCCCTCAT	<u>335</u>
8210	A251G	GR	gctggctcggtcaagaCATTGGGTTTCCCTCAC	<u>336</u>
8592	C46T	ER	gacgatgcctcagcacaACATTAGTGCCAACATCAC	<u>337</u>
8592	C46T	EF	CTCTTCCCTGAGACACCA	<u>338</u>
8592	C46T	CF	gggacggtcggtagatGAAGGTGAAGGCCAGACC	<u>339</u>
8592	C46T	TF	gctggctcggtcaagaGAAGGTGAAGGCCAGAGT	<u>340</u>
8943	A251C	EF	GAGGCTGAGACAGAAGAA	<u>341</u>
8943	A251C	ER	GTTCGACATTAAGAAAATGAG	<u>342</u>
8943	A251C	AR	gggacggtcggtagatGGCTGGAGTGCAGTGATT	<u>343</u>
8943	A251C	CR	gctggctcggtcaagaGGCTGGAGTGCAGTGATG	<u>344</u>
9193	C88G	EF	CACGCTGTTGAGTGGG	<u>345</u>
9193	C88G	ER	CGCAGGTCTACGGTCA	<u>346</u>
9193	C88G	CR	gggacggtcggtagatCCCGGGTCTGAGGCTGCG	<u>347</u>
9193	C88G	GR	gctggctcggtcaagaCCCGGGTCTGAGGCTGCC	<u>348</u>
9516	A187G	EF	CACACACACACACACAC	<u>349</u>
9516	A187G	ER	GGTCCCTTACTTCCCTCTT	<u>350</u>
9516	A187G	AR	gggacggtcggtagatCCTATCCCTACTTCCCCCT	<u>351</u>
9516	A187G	GR	gctggctcggtcaagaCCTATCCCTACTTCCCCC	<u>352</u>
9698	A251G	EF	GTGACCCAAAAGAGAGA	<u>353</u>
9698	A251G	ER	CTAGCTTGTACTGCCTCC	<u>354</u>
9698	A251G	AF	gggacggtcggtagatGGCACGACCCCCCCCCCA	<u>355</u>
9698	A251G	GF	gctggctcggtcaagaGGCACGACCCCCCCCCCG	<u>356</u>
9883	A249G	EF	TCCACAAACCTCAAAACCAC	<u>357</u>
9883	A249G	ER	CACAGTCCTGCAAGCTCA	<u>358</u>
9883	A249G	AR	gggacggtcggtagatCCGTGGCCGTGGCTCACT	<u>359</u>
9883	A249G	GR	gctggctcggtcaagaCCGTGGCCGTGGCTCACC	<u>360</u>
10481	A107T	ER	gacgatgcctcagcacaGTTGGGGCTCCACTT	<u>361</u>
10481	A107T	EF	TAGCGGGACAGCGCTG	<u>362</u>
10481	A107T	AF	gggacggtcggtagatCCCGGGCGCGCCTCGGAGA	<u>363</u>
10481	A107T	TF	gctggctcggtcaagaCCCGGGCGCGCCTCGGAGT	<u>364</u>
10542	C367T	EF	gacgatgcctcagcacaAATACACTGGGTCCCTGCT	<u>365</u>
10542	C367T	ER	ATACTGCTGGCCTTCTC	<u>366</u>
10542	C367T	CR	gggacggtcggtagatGGTCAGGGAGCCCAGAG	<u>367</u>

baySNP	SNP	NAME	SEQUENCE	<u>SEQ ID NO:</u>
10542	C367T	TR	gctggctcggtcaagaGGTCAGGGAGCCCAGAA	<u>368</u>
10600	A251G	EF	CCTGGCAACTAACCTCTT	<u>369</u>
10600	A251G	ER	AGGCAGTCTCTGTCTACTC	<u>370</u>
10600	A251G	AR	gggacggtcggtagatATTGCCCTGCTCAGGAT	<u>371</u>
10600	A251G	GR	gctggctcggtcaagaATTGCCCTGCTCAGGAC	<u>372</u>
10621	C402T	EF	CCAGCCCTAACCTAAA	<u>373</u>
10621	C402T	ER	AACCTCTCAAGATCAGACAC	<u>374</u>
10621	C402T	CF	gggacggtcggtagatTTAGCACTTAATAAGTAC	<u>375</u>
10621	C402T	TF	gctggctcggtcaagaTTAGCACTTAATAAGTAT	<u>376</u>
10745	A251G	EF	CCCCACAACAAAGAAAGA	<u>377</u>
10745	A251G	ER	GAAGCCAACCTCTCCAACA	<u>378</u>
10745	A251G	AF	gggacggtcggtagatCAAGGATTTCAAAAACCA	<u>379</u>
10745	A251G	GF	gctggctcggtcaagaCAAGGATTTCAAAAACCG	<u>380</u>
10771	C64G	EF	gacgatgcctcagcacaCCAGGGAAGAGCAGAACCC	<u>381</u>
10771	C64G	ER	TGTACGGGAAGAGGCAGA	<u>382</u>
10771	C64G	CR	gggacggtcggtagatAGGGTGACACAGGCCACG	<u>383</u>
10771	C64G	GR	gctggctcggtcaagaAGGGTGACACAGGCCACC	<u>384</u>
10870	A251G	EF	ATCCCATCCAACACACA	<u>385</u>
10870	A251G	ER	CCGAGACCAAACCTCATTAC	<u>386</u>
10870	A251G	AR	gggacggtcggtagatGGCAGAGCCTGAGTCACT	<u>387</u>
10870	A251G	GR	gctggctcggtcaagaGGCAGAGCCTGAGTCACC	<u>388</u>
10877	A251C	EF	CCTGTTCTAACCTTCTC	<u>389</u>
10877	A251C	ER	ATGGTCTATGGAACCTAATCT	<u>390</u>
10877	A251C	AF	gggacggtcggtagatGCACTGATTCTGCTTCCA	<u>391</u>
10877	A251C	CF	gctggctcggtcaagaGCACTGATTCTGCTTCCC	<u>392</u>
10948	G140T	EF	AAGGACAGGGTCAGGAAAG	<u>393</u>
10948	G140T	ER	CAGAGGGAGGAAGGAGGT	<u>394</u>
10948	G140T	GF	gggacggtcggtagatATGGAGGAGGGTGTCTGG	<u>395</u>
10948	G140T	TF	gctggctcggtcaagaATGGAGGAGGGTGTCTGT	<u>396</u>
11001	C286T	EF	gacgatgcctcagcacaTTCCCAAAGACCCACA	<u>397</u>
11001	C286T	ER	CCTCCACCGCTATCAC	<u>398</u>
11001	C286T	CR	gggacggtcggtagatTGGCTGCAGGACGTCCAG	<u>399</u>
11001	C286T	TR	gctggctcggtcaagaTGGCTGCAGGACGTCCAA	<u>400</u>
11001	C286T	EF	TTCCCAAAGACCCACA	<u>401</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID NO:
11001	C286T	ER	CCTCCACCGCTATCAC	<u>402</u>
11001	C286T	CR	gggacggtcggtagatTGGCTGCAGGACGTCCAG	<u>403</u>
11001	C286T	TR	gctggctcggtcaagaTGGCTGCAGGACGTCAA	<u>404</u>
11073	C215G	EF	CCCAACCACCCGTTCC	<u>405</u>
11073	C215G	ER	GCGCGGGAGCTAGAGA	<u>406</u>
11073	C215G	CF	gggacggtcggtagatGAAGCTGCGGGCCGGACC	<u>407</u>
11073	C215G	GF	gctggctcggtcaagaGAAGCTGCGGGCCGGACG	<u>408</u>
11153	C116T	EF	CGAGTGGAAAGAAAAGTAGA	<u>409</u>
11153	C116T	ER	ATGACTGCCTGCCTAGAA	<u>410</u>
11153	C116T	CR	gggacggtcggtagatAAGATAAGGTAGAGGCCG	<u>411</u>
11153	C116T	TR	gctggctcggtcaagaAAGATAAGGTAGAGGCCA	<u>412</u>
11210	C194T	EF	GAGGAGTGAGGGAAAGTAAG	<u>413</u>
11210	C194T	ER	AAATGGAGAGAGATGGGA	<u>414</u>
11210	C194T	CF	gggacggtcggtagatCCAGGAAATGACATGATC	<u>415</u>
11210	C194T	TF	gctggctcggtcaagaCCAGGAAATGACATGATT	<u>416</u>
11248	C225T	EF	TGAGTTGAACAGCACTTGG	<u>417</u>
11248	C225T	ER	AGGGTAAGGGAGGGAAAA	<u>418</u>
11248	C225T	CR	gggacggtcggtagatTGATTCTTCGCTTGGCG	<u>419</u>
11248	C225T	TR	gctggctcggtcaagaTGATTCTTCGCTTGGCA	<u>420</u>
11372	A251G	EF	TAGAAAAGAAGAAAAATCAA	<u>421</u>
11372	A251G	ER	ACACACACACACACAC	<u>422</u>
11372	A251G	AR	gggacggtcggtagatCATCACCTTTAGTTCT	<u>423</u>
11372	A251G	GR	gctggctcggtcaagaCATCACCTTTAGTTCC	<u>424</u>
11449	C251G	EF	ACAGAAGAACAAACAACAAAAC	<u>425</u>
11449	C251G	ER	TGCGTATGAGGTAAAGAGA	<u>426</u>
11449	C251G	CF	gggacggtcggtagatATGAGTGAAGCCTGTCTC	<u>427</u>
11449	C251G	GF	gctggctcggtcaagaATGAGTGAAGCCTGTCTG	<u>428</u>
11450	A251T	EF	ACAGAAGAACAAACAACAAAAC	<u>429</u>
11450	A251T	ER	TGCGTATGAGGTAAAGAGA	<u>430</u>
11450	A251T	AR	gggacggtcggtagatGGACCATAATCTTGAAGT	<u>431</u>
11450	A251T	TR	gctggctcggtcaagaGGACCATAATCTTGAAGA	<u>432</u>
11470	C251T	EF	GCTTGTCTTGTCTGATAGGTG	<u>433</u>
11470	C251T	ER	CAACGTGAGAATTCCAAAAT	<u>434</u>
11470	C251T	CR	gggacggtcggtagatTGAGAATTCCAAAATAG	<u>435</u>

<u>baySNP</u>	<u>SNP</u>	<u>NAME</u>	<u>SEQUENCE</u>	<u>SEQ ID No:</u>
11470	C251T	TR	gctggctcggtcaagaTGAGAATTCCAAAATAA	<u>436</u>
11472	A251T	EF	TACATTCAAGGCAAGAAAA	<u>437</u>
11472	A251T	ER	TGATTAGTTACAATTACCTCTAGTATC	<u>438</u>
11472	A251T	AF	gggacggtcggtagatAGTTGTCAGTAAATGTA	<u>439</u>
11472	A251T	TF	gctggctcggtcaagaAGTTGTCAGTAAATGTT	<u>440</u>
11487	A485T	EF	gacgatgcctcagcacaAGAGAGCAGCTAGACTGAGA	<u>441</u>
11487	A485T	ER	TTCCTGCAAACAGTTGAG	<u>442</u>
11487	A485T	AR	gggacggtcggtagatAGTTGAGGGCTCAGGATT	<u>443</u>
11487	A485T	TR	gctggctcggtcaagaAGTTGAGGGCTCAGGATA	<u>444</u>
11488	C533G	EF	gacgatgcctcagcacaAGAGAGCAGCTAGACTGAGA	<u>445</u>
11488	C533G	ER	GTAAATAAAATGGGATGGTG	<u>446</u>
11488	C533G	CR	gggacggtcggtagatGCCCGAGCAAGCTGCATG	<u>447</u>
11488	C533G	GR	gctggctcggtcaagaGCCCGAGCAAGCTGCATC	<u>448</u>
11493	A171G	EF	CCTTTTGTGTTTGTGTTGT	<u>449</u>
11493	A171G	ER	CTTCTCCACCTTCCATT	<u>450</u>
11493	A171G	AF	gggacggtcggtagatGGGAACTCCTAAATCAA	<u>451</u>
11493	A171G	GF	gctggctcggtcaagaGGGAACTCCTAAATCAAG	<u>452</u>
11502	C455T	EF	gacgatgcctcagcacaACGATGGGGTCAGAGTCA	<u>453</u>
11502	C455T	ER	CCTACATTCACACACGAACA	<u>454</u>
11502	C455T	CR	gggacggtcggtagatACACACTCCTCTCAAG	<u>455</u>
11502	C455T	TR	gctggctcggtcaagaACACACTCCTCTCAAA	<u>456</u>
11534	G258T	EF	GCCATCGTCTTCCCT	<u>457</u>
11534	G258T	ER	TCCTCCCTCCTCTCT	<u>458</u>
11534	G258T	GR	gggacggtcggtagatCCTCCACCCACCAGGGCC	<u>459</u>
11534	G258T	TR	gctggctcggtcaagaCCTCCACCCACCAGGGCA	<u>460</u>
11537	A251G	EF	CCTCTTCTCCTCCTCT	<u>461</u>
11537	A251G	ER	CTCTCCTGTCTCTCCTCT	<u>462</u>
11537	A251G	AF	gggacggtcggtagatAGATGGACCTCTACAGGA	<u>463</u>
11537	A251G	GF	gctggctcggtcaagaAGATGGACCTCTACAGGG	<u>464</u>
11560	A185G	EF	CTCCTCCAACTCCTTAC	<u>465</u>
11560	A185G	ER	ATACTTCTCACTGCATCCT	<u>466</u>
11560	A185G	AR	gggacggtcggtagatCCTGTCCCCCTCCCTAGTT	<u>467</u>
11560	A185G	GR	gctggctcggtcaagaCCTGTCCCCCTCCCTAGTC	<u>468</u>
11594	C251T	EF	CACCTTCCTGAACTCAC	<u>469</u>

<u>baySNP</u>	<u>SNP</u>	<u>NAME</u>	<u>SEQUENCE</u>	<u>SEQ ID NO:</u>
11594	C251T	ER	TGATGTCTGTGCTGTCCT	<u>470</u>
11594	C251T	CR	gggacggtcggtagatTCTGGTCCACTCAAGGAG	<u>471</u>
11594	C251T	TR	gctggctcggtcaagaTCTGGTCCACTCAAGGAA	<u>472</u>
11624	C251T	EF	TCGGGAGGTGTAAGTAAG	<u>473</u>
11624	C251T	ER	CCACAGTCAGAAGAGACAA	<u>474</u>
11624	C251T	CR	gggacggtcggtagatAGAGACCCTGGTCCCAAG	<u>475</u>
11624	C251T	TR	gctggctcggtcaagaAGAGACCCTGGTCCCAA	<u>476</u>
11627	C251T	EF	TTTATCACTACACCCCCCTACTC	<u>477</u>
11627	C251T	ER	GACAGACCGACCAATCAC	<u>478</u>
11627	C251T	CR	gggacggtcggtagatCCCTGGGAAGGTTGAGAG	<u>479</u>
11627	C251T	TR	gctggctcggtcaagaCCCTGGGAAGGTTGAGAA	<u>480</u>
11650	A146G	EF	CTGTCCTTGGTCTTC	<u>481</u>
11650	A146G	ER	CGTTGTTCTCTGTCCACT	<u>482</u>
11650	A146G	AR	gggacggtcggtagatGCCAAATGTCTAAAAGT	<u>483</u>
11650	A146G	GR	gctggctcggtcaagaGCCAAATGTCTAAAAGC	<u>484</u>
11654	A251G	EF	CGTATCTCTGCCTTCTT	<u>485</u>
11654	A251G	ER	CTTCTCTTATGCCTTCCC	<u>486</u>
11654	A251G	AF	gggacggtcggtagatTTACTTGAAAGGACACCA	<u>487</u>
11654	A251G	GF	gctggctcggtcaagaTTACTTGAAAGGACACCG	<u>488</u>
11655	A251C	EF	CGTATCTCTGCCTTCTT	<u>489</u>
11655	A251C	ER	CTTCTCTTATGCCTTCCC	<u>490</u>
11655	A251C	AF	gggacggtcggtagatTTCTGCACTAAAGCTGTA	<u>491</u>
11655	A251C	CF	gctggctcggtcaagaTTCTGCACTAAAGCTGTC	<u>492</u>
11656	C251T	EF	TGGGAAGAAAAAGAGAAG	<u>493</u>
11656	C251T	ER	GTTGAAACACTGCACAAG	<u>494</u>
11656	C251T	CR	gggacggtcggtagatCAGGGCTTGGGTGAAG	<u>495</u>
11656	C251T	TR	gctggctcggtcaagaCAGGGCTTGGGTGAA	<u>496</u>
11825	A277G	ER	gacgatgcctcagcacaTGAATAGACAGGGACGAA	<u>497</u>
11825	A277G	EF	GACCTTGGAAATAATGGAG	<u>498</u>
11825	A277G	AF	gggacggtcggtagatCAACCCAGCAAAATGGA	<u>499</u>
11825	A277G	GF	gctggctcggtcaagaCAACCCAGCAAAATGGG	<u>500</u>
11914	A246T	EF	gacgatgcctcagcacaTTGGAAGTGAGATAAGATAGGT	<u>501</u>
11914	A246T	ER	ACGGTGAGAATGAGAGGT	<u>502</u>
11914	A246T	AR	gggacggtcggtagatAAAACAGACATCAGAGGT	<u>503</u>

baySNP	SNP	NAME	SEQUENCE	SEQ ID NO:
11914	A246T	TR	gctggctcggtcaagaAAAACAGACATCAGAGGA	<u>504</u>
12097	A411G	ER	gacgatgcctcagcacaGATGAAACCCTGTCTACT	<u>505</u>
12097	A411G	EF	TTATCAACCTTAGTCTCCCT	<u>506</u>
12097	A411G	AF	gggacggtcggtagatACCTGCCACCACACCAA	<u>507</u>
12097	A411G	GF	gctggctcggtcaagaACCTGCCACCACACCAA	<u>508</u>
12366	A412G	ER	gacgatgcctcagcacaGCTGATGTGGTTGTGAG	<u>509</u>
12366	A412G	EF	GTTCCTGTAGCTCGTGTAG	<u>510</u>
12366	A412G	AF	gggacggtcggtagatCTCCCCGCCCTGCAGCAA	<u>511</u>
12366	A412G	GF	gctggctcggtcaagaCTCCCCGCCCTGCAGCAG	<u>512</u>
12619	A25G	ER	gacgatgcctcagcacaTGGCTGGACTTGACTGATA	<u>513</u>
12619	A25G	EF	TCTTGTGGTGTACAGTGC	<u>514</u>
12619	A25G	AF	gggacggtcggtagatTGTGTCACAGTGCTCTGA	<u>515</u>
12619	A25G	GF	gctggctcggtcaagaTGTGTCACAGTGCTCTGG	<u>516</u>
13025	A585C	EF	gacgatgcctcagcacaTTAAGTAACATGACAAACTC	<u>517</u>
13025	A585C	ER	ATCTGATAACTGAGCAGG	<u>518</u>
13025	A585C	AR	gggacggtcggtagatCTATTAAAGTAACTGGTGT	<u>519</u>
13025	A585C	CR	gctggctcggtcaagaCTATTAAAGTAACTGGTGG	<u>520</u>
13191	A504G	ER	gacgatgcctcagcacaATTCTCCCATTCTCCTGT	<u>521</u>
13191	A504G	EF	TGCCTCTCTCCTCATTC	<u>522</u>
13191	A504G	AF	gggacggtcggtagatCCCTAATGTCTTCCTCTGA	<u>523</u>
13191	A504G	GF	gctggctcggtcaagaCCCTAATGTCTTCCTCTGG	<u>524</u>
900045	C116T	EF	ATCTCCTGATCCAAGTCC	<u>525</u>
900045	C116T	ER	CACACTGTGCCCATCTAC	<u>526</u>
900045	C116T	CR	gggacggtcggtagatCTGACTGATTACCTCATG	<u>527</u>
900045	C116T	TR	gctggctcggtcaagaCTGACTGATTACCTCATA	<u>528</u>
900078	A251G	EF	CATAGGTAAAGATCTGTAGGTG	<u>529</u>
900078	A251G	ER	CCACCTTGGAAAGTGGCAAA	<u>530</u>
900078	A251G	AR	gggacggtcggtagatattaaatcgccctctcT	<u>531</u>
900078	A251G	GR	gctggctcggtcaagaattaaatcgccctctcC	<u>532</u>
900107	C426T	ER	gacgatgcctcagcacaAGGGCTTTTCAGGTAGA	<u>533</u>
900107	C426T	EF	GACCTTCCTGGTAGAA	<u>534</u>
900107	C426T	CF	gggacggtcggtagatACTCTGAACCTGGGGAC	<u>535</u>
900107	C426T	TF	gctggctcggtcaagaACTCTGAACCTGGGGAT	<u>536</u>
10000002	A103G	AF	gggacggtcggtagatGATCAACACAATCTCAA	<u>537</u>

<u>baySNP</u>	<u>SNP</u>	<u>NAME</u>	<u>SEQUENCE</u>	<u>SEQ ID NO:</u>
10000002	A103G	EF	CAGCTGAAAGAGATGAAATTACT	<u>538</u>
10000002	A103G	ER	GACGATGCCTTCAGCACAAACTTATGAAGATTAAGGCATAGG	<u>539</u>
10000002	A103G	GF	gctggctcggtcaagaGATCAACACAATCTTCAG	<u>540</u>
10000006	G107A	AF	gctggctcggtcaagaGGGCTGGGCTGCTAGGGA	<u>541</u>
10000006	G107A	EF	AGACGAGTTCAAGGTGAGTG	<u>542</u>
10000006	G107A	ER	GACGATGCCTTCAGCACACCAAGTTCCGAGTTCC	<u>543</u>
10000006	G107A	GF	gggacggtcggtagatGGGCTGGGCTGCTAGGGG	<u>544</u>
10000014	A153C	AF	gggacggtcggtagatGTACCAATACATCCTGCA	<u>545</u>
10000014	A153C	CF	gctggctcggtcaagaGTACCAATACATCCTGCC	<u>546</u>
10000014	A153C	EF	CTGCTGATGTCTCTGTTG	<u>547</u>
10000014	A153C	ER	GACGATGCCTTCAGCACAGACTTACTTGCTCACACTT	<u>548</u>
10000025	C291T	CF	gggacggtcggtagatCCTCACTCCTCAACGCC	<u>549</u>
10000025	C291T	EF	CCTCTCTGTCTGGTTATCTTG	<u>550</u>
10000025	C291T	ER	GACGATGCCTTCAGCACAAAGTGTGCCTCCTGGTTAG	<u>551</u>
10000025	C291T	TF	gctggctcggtcaagaCCTCACTCCTCAACGCT	<u>552</u>

Please delete paragraph [0634] and replace it with the following:

TABLE 2b
OLIGONUCLEOTIDE PRIMERS USED FOR GENOTYPING USING PYROSEQUENCING

[0634] The baySNP number refers to an internal numbering of the PA SNPs. Primer sequences are listed for preamplification of the genomic fragments and for sequencing of the SNP using the pyrosequencing method. Bio: Biotinylated Oligonucleotide.

<u>baySNP</u>	<u>NAME</u>	<u>SEQUENCE</u>	<u>SEQ ID NO:</u>
2995	Primer F	GCCAAGACTAGGAAGTAAGTGT	<u>553</u>
2995	Primer R	Bio-CCCAGAACACAAAGCTAGTAA	<u>554</u>
2995	Seq.	TGCCCTGGTCACCTCCTTCC	<u>555</u>
3689	Primer F	BIO-CTGACCCTGACCTTCATACTCAA	<u>556</u>
3689	Primer R	AGAAGAAAGAACGCTCTACAGTT	<u>557</u>
3689	Seq.	AACAGATCAGGTTGGTG	<u>558</u>
4838	Primer F	Bio-CAAAGATGACCTTATGGCTCTGA	<u>559</u>
4838	Primer R	GTCTCGGAACATGACCTTAGT	<u>560</u>
4838	Seq.	TGACTAAGAATGTAATGGGAAGA	<u>561</u>

baySNP	NAME	SEQUENCE	<u>SEQ ID NO:</u>
6498	Primer F	CTTTGTGGATCTTCTGCGGTGT	<u>562</u>
6498	Primer R	Bio-CCATGTTGAGGAGCCCAGAGTGA	<u>563</u>
6498	Seq.	ATTACAGTTGTGAGATTGTGC	<u>564</u>
8021	Primer F	GGCCTTCTATGTACTAGGCG	<u>565</u>
8021	Primer R	Bio-CTCTTCTGGAGGCATCAATC	<u>566</u>
8021	Seq.	CACAGGGAGACCCC	<u>567</u>
8060	Primer F	Bio-GCCTTATTTCACACTCCCACCT	<u>568</u>
8060	Primer R	TACCTTCCCCATCCCAACTG	<u>569</u>
8060	Seq.	TCAGCATATGTTGGATT	<u>570</u>
8846	Primer F	ATTTGAGAGAAGGTAGGGT	<u>571</u>
8846	Primer R	BIO-TTTGTTACTCTGTAGCCA	<u>572</u>
8846	Seq.	AAATATTCACTTGTTT	<u>573</u>
9849	Primer F	AAG CAG CAA TCG AAT CCC TT	<u>574</u>
9849	Primer R	TGT TGT TGT TTG GCT AGC TCC	<u>575</u>
9849	Seq.	CCT GCC TTA CTG AGA GCC AAA	<u>576</u>
10079	Primer F	Bio-CACGCCAATTCCCACCATCCT	<u>577</u>
10079	Primer R	GTCCGTCGAGGGGGATGTGTTT	<u>578</u>
10079	Seq.	AATGTGTTCTGGGGGT	<u>579</u>
10747	Primer F	CTAACCATCTTCAAATGCTTAATC	<u>580</u>
10747	Primer R	BIO-TCCTTGAGTCTGAGTTCCC	<u>581</u>
10747	Seq.	CACAAGAAACCCTGAAA	<u>582</u>
11578	Primer F	CTC GGC GTG CTT GGT AAT AA	<u>583</u>
11578	Primer R	CGG AGC CGA ACT CTG GAG GAA TCT	<u>584</u>
11578	Seq.	GGC TGG CAA GTT GTT CCA TCC CAC	<u>585</u>
11644	Primer F	TGA GCA GCG CAT CCT	<u>586</u>
11644	Primer R	TGC AGC CCA CTG ACT CAA	<u>587</u>
11644	Seq.	GCT GTT ACT CAG TAT GAT	<u>588</u>
12008	Primer F	CCGAAGACCAAGACGC	<u>589</u>
12008	Primer R	Bio-TCTTCCATAAAAACAAGGCTC	<u>590</u>
12008	Seq.	AAACAAGAAATTCTGTTTA	<u>591</u>
13937	Primer F	TGA CAG CTC CCA TTG GAA	<u>592</u>
13937	Primer R	AAT TAA TGC GAT CCC TC	<u>593</u>
13937	Seq.	GAC AGC TCC CAT TGG AAG	<u>594</u>
900002	Primer F	ATTGGGCAGGGATAAGAGAAAAG	<u>595</u>

baySNP	NAME	SEQUENCE	SEQ ID NO:
900002	Primer R	Bio-GATGAATCACAGAATGCGGTAT	<u>596</u>
900002	Seq.	CACACAGCAGTCACGCA	<u>597</u>
900013	Primer F	GCCAAGACTAGGAAGTAAGTGT	<u>598</u>
900013	Primer R	Bio- CCCAGAACCAAAAGCTAGTAA	<u>599</u>
900013	Seq.	TGCCCTGGTCACCTCCTTCC	<u>600</u>
900025	Primer F	Bio-AGTGGCTCACTGCTAACG	<u>601</u>
900025	Primer R	CTGGGGAAAGAAAATAATGAA	<u>602</u>
900025	Seq.	CTTGCTCTTAGGATACACGT	<u>603</u>
900032	Primer F	AGCGTCTTCACCATCTGCT	<u>604</u>
900032	Primer R	Bio-GGGAAGGAGGAAGCCAAACA	<u>605</u>
900032	Seq.	ACATGTCTGATGATACCTGG	<u>606</u>
900045	Primer F	BIO-GCCATGCACGATTCCC	<u>607</u>
900045	Primer R	CACTGTGCCCATCTACGAG	<u>608</u>
900045	Seq.	GGACCTGACTGATTACCT	<u>609</u>
900065	Primer F	GAGTAGCTAGGATCACAGGTGCGT	<u>610</u>
900065	Primer R	BIO-TGTTCGAGATTAAAGAAAGTTGGC	<u>611</u>
900065	Seq.	CAGGTGCGTGCCACCATGCC	<u>612</u>
900082	Primer F	CAC ACA ATT TTC CAC TTA	<u>613</u>
900082	Primer R	GAC TCC AGT TTT CTA TCA	<u>614</u>
900082	Seq.	ATG TTG ATG TAA TCT ACT	<u>615</u>
900096	Primer F	TGGGGCAAGCAACAGTGGT	<u>616</u>
900096	Primer R	Bio-TAGGCAGGGCAAGGGATTAGG	<u>617</u>
900096	Seq.	TTTAAATTCTCTGACAGAGAC	<u>618</u>
900107	Primer F	BIO-GCCACCAGCCCACACTCTGAACCTG	<u>619</u>
900107	Primer R	CCATCAGCCTTCACCCACGTGCCA	<u>620</u>
900107	Seq.	GCCTCAGCTTGACCT	<u>621</u>
900115	Primer F	Bio-GGTAAGTGCCTGCCTGGAGATGC	<u>622</u>
900115	Primer R	CGGGGTGGGGAGGGACAGAGC	<u>623</u>
900115	Seq.	GAGGACAGAGCAAAAGGAT	<u>624</u>
900121	Primer F	Bio-TGCCTTACAATATAACATGG	<u>625</u>
900121	Primer R	CAATGGGTAGGAGTAAAGTT	<u>626</u>
900121	Seq.	TTCCAGCTGCTTTA	<u>627</u>

Please delete paragraph [0635] and replace it with the following rewritten paragraph:

TABLE 2c
OLIGONUCLEOTIDE PRIMERS USED FOR GENOTYPING USING
RESTRICTION FRAGMENT LENGTH POLYMORPHISM (RFLP)

[0635] The baySNP number refers to an internal numbering of the PA SNPs. Primer sequences are listed for preamplification of the genomic fragments. The restriction enzyme used for RFPL is indicated.

baySNP	NAME	SEQUENCE	ENZYME	SEQ ID NO:
900173	Primer F	GAACAAACCTCCGAGATGCTAC	Hind III	<u>628</u>
900173	Primer R	GTCTTATGTTACTGGGCTTCACC	Hind III	<u>629</u>

Please delete paragraph [0636] and replace it with the following rewritten paragraph:

TABLE 2D

OLIGONUCLEOTIDE PRIMERS USED FOR GENOTYPING USING TAQMAN

[0636] The baySNP number refers to an internal numbering of the PA SNPs. Primer sequences are listed for amplification of the genomic fragments. In addition the respective fluorescent hybridisation probes are listed. If not otherwise stated, all fluorescent probes have a 'minor groove binder' (MGB) attached (Kutyavin et al., NUCLEIC ACIDS RESEARCH 28:655-661 (2000).

baySNP	F-SEQUENCE	R-SEQUENCE	VIC-MGB	FAM-MGB
52 (SEQ ID NO: 630)	CACCCCTCTAGAATTCACTATTAATTTCAAC	GGCCTTGAAAGAAGATTTTATATTGAGAA (SEQ ID NO: 648)	CTATGCCATACCTTTCGC (SEQ ID NO: 666)	ATGCATAGTTTGCATATT (SEQ ID NO: 684)
542 (SEQ ID NO: 631)	TTTCGCTCCATCAACCAAGTC	GATGGGTGATCAGCCGAATC (SEQ ID NO: 649)	CAAATGGaaGTGGGAGG (SEQ ID NO: 667)	AAATTGGGAGTTGGGAGG (SEQ ID NO: 685)
821 (SEQ ID NO: 632)	GCCAGCTTACCTCTAGTGTGTAAC	AGGTCACTACAGGGGTATCATGAGA (SEQ ID NO: 650)	TGTGATAACCTGGaaACAG (SEQ ID NO: 668)	CTGTGATAACCTGGcACA (SEQ ID NO: 686)
1056 (SEQ ID NO: 633)	TGTATGCACTGCGGTATCTG	CGCCCTCGGGCACTCTTG (SEQ ID NO: 651)	CCAAAACAAacAGGGACGG (SEQ ID NO: 669)	AAACAGCAGGACGGG (SEQ ID NO: 687)
1204 (SEQ ID NO: 634)	CTGTAAGGATCTGGAAATTGATGA	GGCTCACTCTTTGATCTTTAGCAAG (SEQ ID NO: 652)	CACTCACATTAAATTAG (SEQ ID NO: 670)	ACTCACATTAAATTAGT (SEQ ID NO: 688)
1722 (SEQ ID NO: 635)	GGACCCTTAAGAACCCCCAGGAT	ATGGGCTAACACAGGAGATGATG (SEQ ID NO: 653)	TGGCCTGGGCGGTG (SEQ ID NO: 671)	TGGCCTGGGCaTGT (SEQ ID NO: 689)
1757 (SEQ ID NO: 636)	ACAGGGCTGGGAGGCCAC	AGGCCAAATGGAAGGAG (SEQ ID NO: 654)	AACCAAATG&AGGGAG (SEQ ID NO: 672)	ACCGAAATG&AGGGAG (SEQ ID NO: 690)
1765 (SEQ ID NO: 637)	GGAGCTGTGAGGTATGGGCTT	TGTCAAGATGCACTGTAAGGT (SEQ ID NO: 655)	ACGGAGGAAGAGT (SEQ ID NO: 673)	ACGGAGGAAGAaGT (SEQ ID NO: 691)
1799 (SEQ ID NO: 638)	TTTGGGGTTGTCATTGACA	TGGACATATGGGGGACTCT (SEQ ID NO: 656)	AGTGTGATCATCACTT (SEQ ID NO: 674)	CAGTGTGATCTGTCACT (SEQ ID NO: 692)
1837 (SEQ ID NO: 639)	CACTCAGCCCTGCTCTTCC	CATCCCTGGGGTCTTGGT (SEQ ID NO: 657)	TCAGGGGCTACATGA (SEQ ID NO: 675)	TCATGCAGGGGTACAT (SEQ ID NO: 693)
1870 (SEQ ID NO: 640)	CTGGCTCTGACCCCTTGT	GGAGGATGCCATCTCGAAC (SEQ ID NO: 658)	TGCCCTCTTCTCACAC (SEQ ID NO: 676)	CCTCCCTTTCACACCGA (SEQ ID NO: 694)
1988 (SEQ ID NO: 641)	CCGGGGCTTCACTGGTGAET	CTACCTGGCCGGTGCATCATC (SEQ ID NO: 659)	TCCTATACTGGGGTGT (SEQ ID NO: 677)	CTATACCTGGGTGTCAT (SEQ ID NO: 695)
2000 (SEQ ID NO: 642)	TTCCTACTGTGATAATAAATCGACCC	CGATOAACAGTTGGAATAGGTGT (SEQ ID NO: 660)	TACTCATCTTCCTAAATTAC (SEQ ID NO: 678)	CAAATATCTACTCATTTTC (SEQ ID NO: 696)
2085 (SEQ ID NO: 643)	TCATTACATCAGGTATATTGCACTGAAAA	TCAGAGACACTGGAAGAACTTAAGAAAATC (SEQ ID NO: 661)	TGTTACCAAGAAAaAAA (SEQ ID NO: 679)	TGTTACCAAGAAAaAAA (SEQ ID NO: 697)
2281	GCTGCAATTGGAGGACTGATC	CGGTAACTTAAAGAAACGGATGTTC CATACCAACAAaCCA	ACCAACAAACCCAGGT ACCAACAAACAAaCCA	

baySNP	F-SEQUENCE	R-SEQUENCE	VIC-MGB	FAM-MGB
	(SEQ ID NO: 644)	(SEQ ID NO: 662)	(SEQ ID NO: 680)	(SEQ ID NO: 698)
2298	TGCTAGTTCTGGTTCATATT	GGCACGTGTAGACTTGATCTAA	TCATGGGCAATTCA	TATCATGGGCAATTCA
	(SEQ ID NO: 645)	(SEQ ID NO: 663)	(SEQ ID NO: 681)	(SEQ ID NO: 699)
2357	GCGAAGTGTGGACACCAA	GGTTAACGTCTGCTTCGATCC	AAGACGAAAATGATC	AAGACGAAAATGATC
	(SEQ ID NO: 646)	(SEQ ID NO: 664)	(SEQ ID NO: 682)	(SEQ ID NO: 700)
4838	AAGTAGACCTTATGGCTGAGATG	TCTCGGAACATGACCTTAGTCGT	AAGAACGGCCCTGCC	AAGAACGGCCCTGCC
	(SEQ ID NO: 647)	(SEQ ID NO: 665)	(SEQ ID NO: 683)	(SEQ ID NO: 701)
5320	GGGATAATAGTAGAAAAACAAAGCTGTCT	CAACTTAATCACTACTCCATGTAAGCA	AAGGAAAGCTGGATATG	AGGAAAGCTGGATATG
	(SEQ ID NO: 702)	(SEQ ID NO: 717)	(SEQ ID NO: 732)	(SEQ ID NO: 747)
5717	GGCCCGCTCCCTGGCT	AACCCACACCCCTTCACTGTAGAAA	Vic-CCACCTCCCCTCTAGCCTCAAGTGC-TAMRA	Fam-CCCACCTCCCCTCTAGCCTCAAGT-Tamra
	(SEQ ID NO: 703)	(SEQ ID NO: 718)	(SEQ ID NO: 733)	(SEQ ID NO: 748)
5959	ACAGAAACAAATGCCAACCA	CAGTGTGAAACCAAGGGATGTC	Vic-CGAATGTGCTGCCAGCC-TAMRA	Fam-TCGAATGTGCTGCCAGCC-Tamra
	(SEQ ID NO: 704)	(SEQ ID NO: 719)	(SEQ ID NO: 734)	(SEQ ID NO: 749)
6482	CATAGTTAGGTAAACAAAAGGGATTCA	TGTCATGGAAAACGCCACAAC	AACAGAATCTGGTCTACCT	AGATCTGGTCTGCC
	(SEQ ID NO: 705)	(SEQ ID NO: 720)	(SEQ ID NO: 735)	(SEQ ID NO: 750)
8060	GCTATTTGAAATGGATGTGCCTTAATT	TGCATGGCATCAGCATATGTT	CCCCACCTGGAAT	CCCCACCTGGGAA
	(SEQ ID NO: 706)	(SEQ ID NO: 721)	(SEQ ID NO: 736)	(SEQ ID NO: 751)
8816	CAGCCCCCTCTGTCTCCAAG	TCCCCCTCTGTCTCCAAGC	TGAGAAAAAGgtTCG	CTGAGAAAAAGgtTC
	(SEQ ID NO: 707)	(SEQ ID NO: 722)	(SEQ ID NO: 737)	(SEQ ID NO: 752)
10600	GGTAGCTTTGGCATCTC	AAGTTAACTAACGCTTTCATATTGG	TGCTCAGGGAGCC	TGCTCAGGGAGCC
	(SEQ ID NO: 708)	(SEQ ID NO: 723)	(SEQ ID NO: 738)	(SEQ ID NO: 753)
10771	CTGGCCCCACCGAGGTAC	GATCTCTGAGGTGGCTCTGT	CAAGGAAGgtGGCCT	CAAGGAAGgtGGC
	(SEQ ID NO: 709)	(SEQ ID NO: 724)	(SEQ ID NO: 739)	(SEQ ID NO: 754)
10948	ACATTCCTCCACCCACCGCTT	GCAGGGCAGAGGGAGGA	CCCCCAAGTAATaCAGA	CCCCAAGTAATCAGAAC
	(SEQ ID NO: 710)	(SEQ ID NO: 725)	(SEQ ID NO: 740)	(SEQ ID NO: 755)
11001	GCCATCCCTTGTGAACGTGAA	ACATGACCAGGGCCACTT	TGGTTCACtGGACGCT	TGGTACGGACGTCCT
	(SEQ ID NO: 711)	(SEQ ID NO: 726)	(SEQ ID NO: 741)	(SEQ ID NO: 756)
11073	GAGCAAACAGCCGCCTGAG	GCGGGAGCTAGAGGAGCTG	TGGGGCCTgtGTC	TCTCGGGCCTgtGTC
	(SEQ ID NO: 712)	(SEQ ID NO: 727)	(SEQ ID NO: 742)	(SEQ ID NO: 757)
11248	GAAAGCTAACTCCCCGTAGC	TGAAGGGTAAGGGAGGGAAA	CTGGGgtCGCGTC	TTGGcatCGCGTCAG
	(SEQ ID NO: 713)	(SEQ ID NO: 728)	(SEQ ID NO: 743)	(SEQ ID NO: 758)
11654	AGTTTGTTCCTTATTAGGGTTCCA	CTCTTATGCCCTCCCCACCA	TTGAAAGGACACCATATT	ACACCTATTTCAC
	(SEQ ID NO: 714)	(SEQ ID NO: 729)	(SEQ ID NO: 744)	(SEQ ID NO: 759)
11655	CATATTCAAGAAAGATTATCTCCAACTCTT	TGGAAACCTCTAAATAGGAAAAACAAACT	CACTAAAGCTGtaATATTA	CTAAAGCTGtaATATTA
	(SEQ ID NO: 715)	(SEQ ID NO: 730)	(SEQ ID NO: 745)	(SEQ ID NO: 760)
13191	GAGTTGGTGGCATAAAACCTAA	CCTGCCCCACCTCTCTCT	TCTTCCTCTGGTAAACA	TCCTCTGtaGTAACAAAC
	(SEQ ID NO: 716)	(SEQ ID NO: 731)	(SEQ ID NO: 746)	(SEQ ID NO: 761)